WO 2005/040795 PCT/EP2004/011007

SEQUENCE LISTING

<110> Bayer HealthCare AG

<120> Diagnostics and Therapeutics for Diseases Associated with Aminopeptidase-Like 1 (NPEPL1)

<130> BHC 03 01 006

<160> 5

. <170> PatentIn version 3.1

<210> 1

<211> 1691

<212> DNA

<213> Homo sapiens

<400> 1

gggccgggca gggccggggc gtgggccggc aggaagatgg cgaacgtggg gctgcagttc 60 caggegageg egggggaete ggaeceacag ageeggeeee tgetgetget egggeagetg 120 caccacctgc accgcgtgcc ctggagccac gtccgcggga agctgcagcc ccgggtcacc 180 gaggagetet ggeaggetge cetgageaeg etcaacecea acceeaegga cagetgteee 240 ctctacctaa ctacgccacc gtggctgccc tgccctgcag ggtgagccgg cacaacagcc 300 360 cctcggccgc ccacttcatc acgcggctgg tgcggacctg cctgccgccc ggagcgcatc 420 gctgcattgt gatggtctgc gagcagccag aggtctttgc ttccgcctgt gccctggccc 480 gggccttccc gctgttcacc caccgctcag gtgcctctcg gcgcttggag aagaagacgg 540 tcaccqtqqa gtttttcctg gtgggacaag acaacgggcc ggtggaggtg tccacattgc agtgcttagc gaatgccaca gacggcgtgc ggctagcagc ccgcatcgtg gacacaccct 600 660 gcaatgagat gaacaccgac accttcctcg aggagattaa caaagctgga aaggagctgg ggatcatccc aaccatcatc cgggatgagg aactgaagac gagaggattt ggaggaatct 720 780 atggggttgg caaagccgcc ctgcatcccc cagccctggc cgtcctcagc cacaccccag atggagccac gcagaccatc gcctgggtgg gcaaaggcat cgtctatgac actggaggcc 840 900 tcagcatcaa agggaagact accatgccgg ggatgaagcg agactgcggg ggtgctgcgg ccgtcctggg ggccttcaga gccgcaatca agcagggttt caaagacaac ctccacgctg 960 tgttctgctt ggctgagaac tcggtggggc ccaatgcgac agggccagat gacatccacc 1020 tgctgtactc agggaagacg gtggaaatca acaacacgga tgccgagggc aggctggtgc 1080 1140 tggcagatgg cgtgtcctat gcttgcaagg acctgggggc cgacatcatc ctggacatgg ccaccetgae eggggeteag ggeattgeea cagggaagta ccaegeegeg gtgeteacea 1200 1260 acagcgctga gtgggaggcc gcctgtgtga aggcgggcag gaagtgtggg gacctggtgc accegetggt ctactgeece gagetgeact teagegagtt caceteaget gtggeggaea 1320 1380 tgaagaactc agtggcggac cgagacaaca gccccagctc ctgtgctggc ctcttcatcg cctcacacat cggcttcgac tggcccggag tctgggtcca cctggacatt gctgcaccgg 1440 tgcatgctgg tgagcgagcc acaggcttcg gtgtggccct cctgctggcg ctcttcggcc 1500 gtgcctctga ggaccctctg ctgaacctgg tgtccccact gggctgtgag gtggatgtcg 1560

1620 1680 1691

aggaggggga cotggggagg gactocaaga gacgcaggot tgtgtgagoc tootgootog
gccctgacaa acggggatct tttacctcac tttgcactga ttaattttaa gcaattgaaa
gattgccctt c
· ,
<210> 2
<211> 411
<212> PRT
<213> Homo sapiens
· .
<400> 2
Met Val Cys Glu Gln Pro Glu Val Phe Ala Ser Ala Cys Ala Leu Ala
1 5 10 15
Arg Ala Phe Pro Leu Phe Thr His Arg Ser Gly Ala Ser Arg Arg Leu
20 25 30
Glu Lys Lys Thr Val Thr Val Glu Phe Phe Leu Val Gly Gln Asp Asn
35 40 45
Gly Pro Val Glu Val Ser Thr Leu Gln Cys Leu Ala Asn Ala Thr Asp
50 55 60
Gly Val Arg Leu Ala Ala Arg Ile Val Asp Thr Pro Cys Asn Glu Met
65 70 75 80
Asn Thr Asp Thr Phe Leu Glu Glu Ile Asn Lys, Val Gly Lys Glu Leu
85 90 95
Gly Ile Ile Pro Thr Ile Ile Arg Asp Glu Glu Leu Lys Thr Arg Gly
100 105 110
Phe Gly Gly Ile Tyr Gly Val Gly Lys Ala Ala Leu His Pro Pro Ala
115 120 125
Leu Ala Val Leu Ser His Thr Pro Asp Gly Ala Thr Gln Thr Ile Ala
130 135 140
Trp Val Gly Lys Gly Ile Val Tyr Asp Thr Gly Gly Leu Ser Ile Lys 145 150 155 160
Gly Lys Thr Thr Met Pro Gly Met Lys Arg Asp Cys Gly Gly Ala Ala  165 170 175
165 170 175  Ala Val Leu Gly Ala Phe Arg Ala Ala Ile Lys Gln Gly Phe Lys Asp
180 185 190
Asn Leu His Ala Val Phe Cys Leu Ala Glu Asn Ser Val Gly Pro Asn
195 200 205
Ala Thr Arg Pro Asp Asp Ile His Leu Leu Tyr Ser Gly Lys Thr Val
210 215 220
Glu Ile Asn Asn Thr Asp Ala Glu Gly Arg Leu Val Leu Ala Asp Gly
225 230 235 240
Val Ser Tyr Ala Cys Lys Asp Leu Gly Ala Asp Ile Ile Leu Asp Met
245 250 255
Ala Thr Leu Thr Gly Ala Gln Gly Ile Ala Thr Gly Lys Tyr His Ala
260 265 270

PCT/EP2004/011007

21

cattegetaa geactgeaat g

						•												
	Ala	Val	Leu	Thr	Asn	Ser	Ala	Glu	Trp	Glu	Ala	Ala	Cys	Val	Lys	Ala		
			275					280					285		•			
	Gly	Aŗg	Lys	Cys	Gly	Asp	Leu	Val	His	Pro	Leu	Val	Tyr	Cys	Pro	Glu		
	•	290					295					300						
	Leu	His	Phe	Ser	Glu	Phe	Thr	Ser	Ala	Val	Ala	Asp	Met	Lys	Asn	Ser	•	
	305					310		-			315					320		
	Val	Ala	Asp	Arg	Asp	Asn	Ser	Pro	Ser	Ser	Cys	Ala	Gly	Leu	Phe	Ile		
	٠.				325					330					335			
	Ala	Ser	His	Ile	Gly	Phe	Asp	Trp	Pro	Gly	Val	Trp	Val	His	Leu	Asp		
				340					345					350				
	Ile	Ala	Ala	Pro	Val	His	Ala	Gly	Glu	Arg	Ala	Thr	Gly	Phe	Gly	Val		
			355					360					365					
	Ala	Leu	Гел	Leu	Ala	Leu	Phe	Gly	Arg	Ala	Ser	Glu	Asp	Pro	Leu	Leu		
		370					375					380						
	Asn	Leu	Val	Ser	Pro	Leu	Gly	Сув	Glu	Val	Asp	Val	Glu	Glu	Gly	Asp		
	385			٠.	-	390					395	-			•	400		
	Leu	Gly	Arg	'Asp	Ser	ГÀЗ	Arg	Arg	Arg	Leu	Val							
					405					410								
				•														
	<210	)>	3															
	<211	.>	21															
	<212	?> :	DNA			٠												
<213> artificial sequence																		
	<220>																	
	<223	3 <u>&gt;</u>	forwa	ard I	orıme	er												
			_															
<400> 3														21				
ttttcctggt gggacaagac a 21																		
	<210		4															
	<211																	
			DNA															
		213> artificial sequence																
	~~				57	-446												
	<220	) > <u>'</u>																
			reve	cse t	orime	er											•	
	<223> reverse primer .																	
	<400		4															
	_																	

WO 2005/040795 PCT/EP2004/011007

-4-

<210> 5
<211> 18
<212> DNA
<213> artificial sequence
<220>
<223> probe

cgggccggtg gaggtgtc

<400> 5

18